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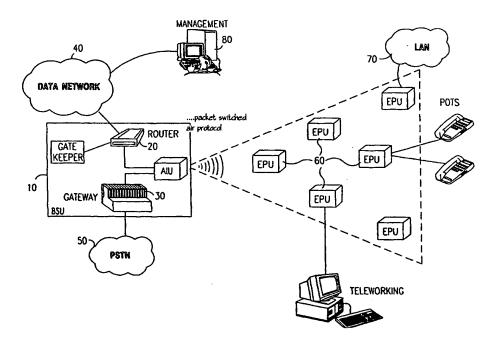
Published

Without international search report and to be republished upon receipt of that report.

(54) Title: WIRELESS LOCAL LOOP SYSTEM AND METHODS USEFUL THEREFOR

(57) Abstract

invention discloses This a wireless local loop system including a data network/PSTN gateway unit, at least one data lines, at lease one base stations connected to the gateway unit via said at least one data lines multiplicity respectively, а subscriber units wireless communicating wirelessly the base station, each wireless subscriber unit comprising at least one interfaces to at least one host including a telephone host, each subscriber unit including an analog converter operative to translate incoming information in IP packet format into analog voice representation and to feed the analog voice representation to the telephone host, and to receive incoming analog voice information from the telephone host, to translate the incoming analog voice information into IP packet formatted information and



to feed the IP packet formatted information to the base station, and a packet switcher operative to perform packet switching on IP packets arriving from the base station connected to the subscriber unit, including routing IP packets for hosts other than the telephone host to those hosts and routing IP packets for the telephone host to the analog converter, and wherein the base station is operative to perform packet switching on incoming IP packets based on an IP destination address included in each the incoming IP packet, and wherein the gateway unit is operative to switch incoming data packets onto the data network, to translate incoming voice packets from IP packet format into analog voice representation and to switch the analog voice representation onto the PSTN.

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From the INTERNATIONAL BUREAU

PCT

4.7

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231

ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
16 August 2000 (16.08.00)

International application No.
PCT/IL99/00666

International filing date (day/month/year)
07 December 1999 (07.12.99)

Applicant

SLOVIN, Zvi

1.	The designated Office is hereby notified of its election made:
	in the demand filed with the International Preliminary Examining Authority on:
	07 July 2000 (07.07.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under
	Rule 32.2(b).
	•

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 Authorized officer

Claudio Borton

Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

IL9900666



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	ACTION	See Notification of Transmittal of International
BO 43768	FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/month	
PCT/IL99/00666	07/12/1999	07/12/1998
International Patent Classification (IPC) or H04L12/00	national classification and IPC	
Applicant		
MARCONI COMMUNICATIONS I	SRAEL LTD. et al.	
	mination report has been prepare	d by this International Preliminary Examining Authority
2. This REPORT consists of a total	of 7 sheets, including this cover s	sheet.
boon amended and are the i	pasis for this report and/or sneets a 607 of the Administrative Instruc	he description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT).
These annexes senset or a term		
3. This report contains indications	relating to the following items:	
I ⊠ Basis of the report		
II ☐ Priority	of animina with regard to nevelty i	nventive step and industrial applicability
		The line of the meaning approximation of the second of the
IV ☐ Lack of unity of inventors V ☐ Reasoned statement citations and explar	nt under Article 35(2) with regard t nations suporting such statement	o novelty, inventive step or industrial applicability;
VI Certain documents		
VII Certain defects in the	ne international application	ļ
VIII Certain observation	s on the international application	
Date of submission of the demand	Date	of completion of this report
07/07/2000	23.11	.2000
Name and mailing address of the internal preliminary examining authority:	tional Author	prized officer
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52		patou, E
Fax: +49 89 2399 - 4465		phone No. +49 89 2399 7521



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/IL99/00666

l.	Basis	of th	e report
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I.	Basis	s of the report	office in
1.	respo the re		rawn on the basis of (substitute sheets which have been furnished to the receiving Office in on under Article 14 are referred to in this report as "originally filed" and are not annexed to not contain amendments (Rules 70.16 and 70.17).):
	1-39		as originally filed
	Clair	ms, No.:	
	1-20)	as originally filed
	Drav	wings, sheets:	
	1/11	-11/11	as originally filed
2	. With	n regard to the lan guage in which the	nguage, all the elements marked above were available or furnished to this Authority in the eithernational application was filed, unless otherwise indicated under this item.
		ese elements were	e available or furnished to this Authority in the following language: , which is:
		the language of	a translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of	publication of the international application (under Rule 48.3(b)).
		the language of 55.2 and/or 55.3	a translation furnished for the purposes of international preliminary examination (under hule
;	3. Wit	th regard to any n e ernational prelimin	ucleotide and/or amino acid sequence disclosed in the international application, the nary examination was carried out on the basis of the sequence listing:
		contained in the	international application in written form.
		filed together wi	th the international application in computer readable form.
		furnished subse	equently to this Authority in written form.
		furnished subse	equently to this Authority in computer readable form.
		The statement t	that the subsequently furnished written sequence listing does not go beyond the disclosure in It application as filed has been furnished.
		The statement t	that the information recorded in computer readable form is identical to the written sequence
	4. Th	ne amendments ha	ave resulted in the cancellation of:
		the description,	, pages:
		the claims,	Nos.:



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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International application No. PCT/IL99/00666

										•	
		the drawings,	sheets:								
5.		This report has beer considered to go be	yond the disclo	sure as	filed (F	Rule 70.2((C)):				
		(Any replacement sereport.)	heet containing	such ar	nendm	ents mus	st be referre	ed to under it	em 1 and a	annexed to	this
6.	Add	litional observations,	if necessary:								
111	No	n-establishment of o	opinion with re	egard to	novel	ty, inven	itive step a	ınd industria	al applicat	oility	
т	20 01	uestions whether the e industrially applical	claimed inventi	ion appe	ars to	be novel,	to involve	an inventive	step (to be	e non-obviou	ıs),
		the entire internatio	nal application.								
	×	claims Nos. 6-20.									
b	ecau	se:									
		the said internation not require an inter	al application, on ational prelim	or the sa inary ex	id clair aminati	ns Nos. (ion (<i>spec</i>	relate to the	e following s	ubject matt	ter which do	es
		the description, cla that no meaningful	ims or drawing opinion could l	s (<i>indica</i> be forme	ite part d (spe	licular ele ecify):	ements belo	ow) or said cl	aims Nos.	are so uncl	lear
		the claims, or said could be formed.	claims Nos. a	re so ina	dequa	tely supp	orted by the	e description	that no mo	eaningful op	oinion
	⊠	no international se	arch report has	s been e	stablisl	hed for th	ie said clair	ms Nos. 6-20).		
2	ar	meaningful internationd/or amino acid sequestructions:		ovomin	ation re	enort can	not be carr	ied out due t	o the failur	e of the nuc Administrativ	leotide e
		l the written form ha	as not been fur	nished o	r does	not comp	y with the	standard.			
			lable form has	not beer	furnis	hed or do	es not con	nply with the	standard.		
,	V. R ci	easoned statement itations and explana	under Article ations support	35(2) wi ting suc	th rega h state	ard to no ement	ovelty, inve	entive step o	or industri	al applicab	ility;
	1. S	tatement									
	N	lovelty (N)	Yes:	Claims	1-5						



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IL99/00666

No:

Claims

Inventive step (IS)

Yes: Claims 1-5

No:

Claims

Industrial applicability (IA)

Yes:

Claims 1-5

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet



Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- The subject-matter of claim 1 is new and involves an inventive step, Article 1. 33(2)(3) PCT.
- 1.1 Claim 1 refers to a wireless local loop system with
 - a data network/PSTN gateway unit, a.
 - b. data lines,
 - base station connected to the gateway unit via the data line and C.
 - wireless subscriber units. These are communicating wirelessly with the base d. station and comprising interface to a host, including a telephone host.
- 1.2 Such a system is known from document D1: EP 0 766 490 A2.
- The problem to be solved by the present invention may be regarded as providing 1.3 users with wireless access to a number of services of a voice and data network.
- This problem is solved by the following technical features:
 - The wireless subscriber units comprising e.
 - an analog converter operative to translate incoming information in IP packet format into analog voice representation and to feed the later to the telephone host, and to receive incoming analog voice information from the telephone host, to translate it into IP packet formatted information and to feed the later to the base station; and
 - a packet switcher for packet switching and routing the IP packets. ii.
 - The base station performs packet switching based on the IP destination f. address of the IP packets.
 - The gateway unit switches data packets to the data network and translates g. voice packets to the analog voice representation, before it switches it onto

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

the PSTN.

- This solution cannot be derived from the prior art. 2.
- 2.1 Document D1 refers to an integrated radio communication system and mentions radio LANs, but it does not lead to the idea of an integrated data and voice wireless subscriber unit.
- 2.2 Document D2: WO 97/12456 refers to a wireless local loop communication network for interconnecting LANs. It does not disclose voice services or connection to the PSTN.
- 2.3 Document D3: WO 98/24224 refers to a general access system. It discloses several ways to make services available, for example voice over Internet. The combination of IP in the air interface and having voice transmitted over this IP-airinterface cannot be derived.
- 2.4 The other cited documents do not deal with the problem posed and are less relevant.
- Independent claim 5 corresponds to claim 1 and is therefore also new and 3. inventive.
- Claims 2 to 4 are dependent on claim 1 and as such also meet the requirements 4. of the PCT with respect to novelty and inventive step.

Re Item VII

Certain defects in the international application

- The features of the claims are not provided with reference signs placed in 1. parentheses (Rule 6.2(b) PCT).
- Independent claims 1 and 5 are not in the two-part form in accordance with Rule 2. 6.3(b) PCT, with those features known in combination from the prior art





EXAMINATION REPORT - SEPARATE SHEET

(document D1) being placed in the preamble (Rule 6.3(b)(i) PCT).

- Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art 3. disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.
- The sheets of the description and the claims do not have line numbering (Rule 4. 11.8 PCT).

Re Item VIII

Certain observations on the international application

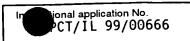
- There is no antecedent definition for the term "the data network" in claim 1. The 1. same applies to the term "the analog converter" and "the data network" in claim 5.
- The phrase "hereby incorporated by reference" on page 1 of the description 2. should be deleted as the application should be self-contained; such referenced documents are not regarded as part of the disclosure unless they contain matter essential to the invention, in which case the subject-matter in question would have to be incorporated into the description. This, however, is not the case. See also PCT Guidelines, II, 4.17.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of (Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
36148	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
nternational application No.	i e	07/12/1998
CT/IL 99/00666	07/12/1999	07,12,1770
ARCONI COMMUNICATIONS I	SRAEL LTD. et al.	
according to Article 18. A copy is being	een prepared by this International Searching Au transmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consi	sts of a total of o sileets. by a copy of each prior art document cited in the	is report.
language in which it was ined,	the international search was carried out on the b unless otherwise indicated under this item.	
the international search	ch was carried out on the basis of a translation o	f the international application furnished to this
b. With regard to any nucleotide	e and/or amino acid sequence disclosed in the of the sequence listing :	international application, the international search
contained in the inter	national application in written form.	·
filed together with the	international application in computer readable f	orm.
furnished subsequen	tly to this Authority in written form.	
= =	was this Authority in computer readble form.	
the statement that the	e subsequently furnished written sequence listin	g does not go beyond the disclosure in the
the statement that th furnished	e information recorded in computer readable for	m is identical to the written sequence listing has been
	e found unsearchable (See Box I).	
3. X Unity of invention i	s lacking (see Box II).	
4. With regard to the title,		
X the text is approved	as submitted by the applicant.	
the text has been es	stablished by this Authority to read as follows:	
a way was do the electract		
5. With regard to the abstract,	as submitted by the applicant.	= 0 1
the text is approved the text has been e within one month fr	established, according to Rule 38.2(b), by this Au com the date of mailing of this international searc	athority as it appears in Box III. The applicant may, th report, submit comments to this Authority.
	be published with the abstract is Figure No.	None of the figures.
as suggested by th		TAOME OF THE MESSAGE
X because the applic	ant failed to suggest a figure.	
because this figure	e better characterizes the invention.	





Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sneet)
This Inter	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. 🗓	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-5,19 (claim 19 as far as relating to the 1st invention)
Rema	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

 Claims: 1-5, 19 (Claim 19 as far as relating to the first invention)

A wireless loop system and method, comprising a gateway, at least one base station, a multiplicity of subscriber units, an analog converter, and a packet switcher.

2. Claims: 6-20, (Claim 19 as far as relating to the second invention)

A quality of service device and system.

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The abstract is changed as follows:

line 2, after "unit" insert "(30)", after "stations" insert "(10)"
line 4, after "units" insert "(60)"
line 5, after "interfaces" insert "(130)"
line 17, after "network* insert "(40)"
line 19, after "PSTN" insert "(50)"

International Application No L 99/00666

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L12/28 H04L29/06 H04M11/06 H04M7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04L H04M H04Q IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

	ENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	
A	EP 0 843 494 A (LUCENT TECHNOLOGIES INC) 20 May 1998 (1998-05-20) abstract page 2, line 16 -page 3, line 5 page 3, line 40 - line 57	1,5
	·	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
31 March 2000	2 0. 06. 2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Vaskimo, K

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International Application No
P 1 L 99/00666

	DE COLEMANY	F 35/ 00000
	tion) DOCUMENTS CONSIDERED BE RELEVANT Citation of document, with indication, where appropriate, of the relevant possages	Relevant to claim No.
eategory °	WO 98 24224 A (ERICSSON TELEFON AB L M) 4 June 1998 (1998-06-04) page 1, line 4 - line 22 page 2, line 18 - line 26 page 3, line 28 -page 4, line 6 page 5, line 4 - line 15 page 6, line 4 - line 15 page 7, line 5 -page 9, line 8 page 13, line 23 -page 15, line 26 page 19, line 7 -page 21, line 14 page 22, line 5 - line 27 page 23, line 22 -page 25, line 14 page 26, line 25 -page 27, line 2 page 30, line 16 - line 29 page 31, line 22 -page 32, line 15 page 37, line 4 - line 22	1,5
A	Figure 7 WO 97 12456 A (INTERTRADE COMPUTER CONSULTANT) 3 April 1997 (1997-04-03) page 1, line 10 -page 3, line 8 page 3, line 26 -page 7, line 1 claims 1,2 figure 5	1,5
A	EP 0 810 761 A (SONY CORP) 3 December 1997 (1997-12-03) column 1, line 7 -column 3, line 18 column 6, line 23 -column 7, line 19 column 10, line 13 -column 11, line 7 figure 1	1,5
A	EP 0 843 454 A (LUCENT TECHNOLOGIES INC) 20 May 1998 (1998-05-20) abstract column 1, line 5 -column 2, line 56 column 3, line 44 - line 49 column 5, line 1 - line 14	1,5
A	EP 0 794 643 A (AT & T CORP) 10 September 1997 (1997-09-10) column 1, line 5 -column 2, line 42	1,5
A	EP 0 766 490 A (NOKIA MOBILE PHONES LTD) 2 April 1997 (1997-04-02) page 2, line 3 - line 53 page 5, line 35 -page 7, line 39	1,5
A	US 5 457 680 A (TRIMMER JR MERL A ET AL) 10 October 1995 (1995-10-10) column 1, line 8 -column 4, line 37 column 5, line 26 - line 54	1,5

Information on patent family members

International Application No
I L 99/00666

Publication

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